

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 08-050922

(43)Date of publication of application : 20.02.1996

(51)Int.Cl. H01M 10/38  
H01M 4/02  
H01M 4/62  
H01M 4/66  
H01M 10/40

(21)Application number : 07-128139

(71)Applicant : CANON INC

(22)Date of filing : 26.05.1995

(72)Inventor : KAWAKAMI SOICHIRO  
MISHINA SHINYA  
KOBAYASHI NAOYA  
ASAO MASAYA

(30)Priority

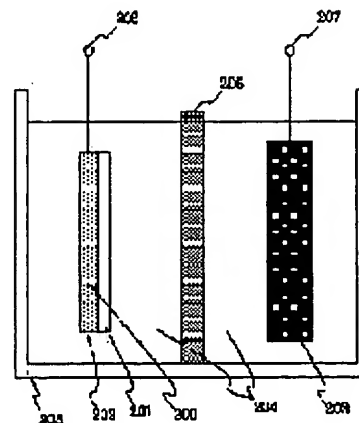
Priority number : 06116717 Priority date : 30.05.1994 Priority country : JP

## (54) ELECTRODE FOR CELL AND LITHIUM SECONDARY CELL EQUIPPED WITH THE ELECTRODE

(57)Abstract:

PURPOSE: To prevent each current collecting member from being formed into fine powder, and also prevent current collecting capacity from being degraded because of cracks taken place, which are caused by the precipitation and dissolution of lithium at the time of charging/discharging by letting a negative electrode be composed of, metallic elements capable of making an alloy of lithium, and of metallic elements unable to make an alloy of lithium, and thereby extracting an output terminal at the negative electrode out of the metallic elements unable to make an alloy of lithium.

CONSTITUTION: In a cell equipped with a negative



electrode 202, a positive electrode 203, electrolyte 204 and with a separator 205, the negative electrode 202 is made up of a member including metallic elements capable of making an alloy of lithium, and of a current collecting section 200 composed of metallic elements unable to make an alloy of lithium. By this constitution, even if charging/discharging are repeated, a current collecting member will never be degraded, and can thereby maintain its current collecting capacity. Therefore, an increase in charging voltage can be prevented at the time of charging at low amperage current, the occurrence of dendrite is thereby restrained, and its cycle life can be extended.

---

## LEGAL STATUS

[Date of request for examination] 03.12.1998

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office